

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/15788

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7

B01J19/00

H01M8/00

B01D1/00

C01B3/38

10/541382

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J H01M B01D C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	US 2003/019638 A1 (SIMPSON NEIL ANDREW ABERCROMBI) 30 January 2003 (2003-01-30)	1, 4
P, A	page 2, paragraph 29 - page 3, paragraph 31	11
P, A	page 3, paragraph 33 - page 4, paragraph 36; figures	
P, A	US 2003/093950 A1 (YU PAUL T ET AL) 22 May 2003 (2003-05-22)	1
	figures 1, 2	
X	US 2001/032468 A1 (AJIRO TAIKO ET AL) 25 October 2001 (2001-10-25)	1
	figure 2	
X	DE 197 17 544 A (EBERSPAECHER J GMBH & CO) 29 October 1998 (1998-10-29)	1
	figures	
	--- -/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents:

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

19 April 2004

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26/04/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2002/071975 A1 (SHIMAZU TAKASHI)  13 June 2002 (2002-06-13)  figure 1</p> <p style="text-align: center;">-----</p>	1,3

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